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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/051,459	01/22/2002	Hans Beer	103655.50685US	6980
2391 1 7590 07/07/2010 CROWELL & MORING LLP INTELLECTUAL PROPERTY GROUP			EXAMINER	
			ALEXANDER, LYLE	
P.O. BOX 14300 WASHINGTON, DC 20044-4300			ART UNIT	PAPER NUMBER
			1797	
			MAIL DATE	DELIVERY MODE
			07/07/2010	PAPER

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The time period for reply, if any, is set in the attached communication.

1	RECORD OF ORAL HEARING
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3	UNITED STATES PATENT AND TRADEMARK OFFICE
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6	BEFORE THE BOARD OF PATENT APPEALS
7	AND INTERFERENCES
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10	Ex parte HANS BEER, KLAUS FROESE,
11	LOTHAR KNOECHELMANN and DUANE B. PIECHOCKI
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14	Appeal No. 2010-000331
15	Application No. 10/051,459
16	Technology Center 1700
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19	Oral Hearing Held: June 8, 2010
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22	Before EDWARD C. KIMLIN, PETER F. KRATZ, and MARK NAGUMO
23	Administrative Patent Judges.
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25	APPEARANCES:
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27	ON BEHALF OF THE APPELLANT:
28	
29	MARK H. NEBLETT, ESQUIRE
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31	1001 Pennsylvania Avenue, N.W.
32	Washington, D.C. 20004-2595
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- 1 CLERK: Good morning. Calendar Number 13, Appeal No. 2010-000331,
- 2 Mr. Neblett.
- 3 JUDGE KIMLIN: Good afternoon, Mr. Neblett.
- 4 MR. NEBLETT: Good afternoon, gentlemen.
- 5 JUDGE KIMLIN: You can start when you're ready.
- 6 MR. NEBLETT: If it please the Court, I'd like to start off with something a
- 7 little unusual. I'd like to ask you to, essentially, disregard the Reply Brief
- 8 that was submitted.
- 9 As I was preparing for the hearing today, I recognized that I had misread one
- of the underlying documents and presented an argument that was
- inconsistent with all of the rest of the record.
- What I'd really like to do today is focus on a singular issue -- an error in the
- 13 Examiner's Answer -- which really goes to the heart of the fundamental issue
- here, the issue being, essentially, whether the Examiner has established a
- 15 prima facie case of obviousness; or in the alternative, whether it's been
- 16 rebutted by the record evidence that's been submitted.
- 17 In order to lay the foundation for the Examiner's error, I'd like to briefly go
- 18 through the technology. If this whole period takes more than ten minutes,
- 19 I'll be surprised; but I need to lay that out so you know what the error was
- and what's going on there.
- 21 JUDGE KIMLIN: Isn't it your basic position that there's really no teaching
- 22 or suggestion of abrading a membrane?
- 23 MR. NEBLETT: It's fairly close to that. When you look at the membrane --
- 24 in the prior art, the technology -- the prior art -- was invented by this
- 25 inventor, Dr. Beer, 16 years ago.

- 1 He came up with the idea of putting together these feedstock solutions,
- 2 cellular nitrate, and cellulose acetate and forming a casting dope, putting it
- 3 on the film, and found the film would stick to the material.
- 4 Once it was dry, you had a very good membrane -- a very delicate
- 5 membrane -- and, actually, you can see in the 960 reference the structure of
- 6 the forced membrane that Dr. Beer came up with.
- 7 JUDGE KIMLIN: Does the primary reference teach at all, or suggest, any
- 8 cleaning of the membrane after it's formed?
- 9 MR. NEBLETT: Absolutely not, and that's the heart of the error I want to
- 10 get to.
- 11 When you look at the technology -- the problem with this technology is once
- 12 that membrane is formed, in the prior art it's common knowledge that you
- 13 couldn't clean the membrane from the low molecular weight impurities
- which caused filter dust. You couldn't clean them off without, essentially,
- 15 tearing up the membrane while you were doing it. You'd have just as bad a
- 16 result as if it was clean.
- 17 That was the state of the art for about 15 years or so. It was accepted and
- 18 known. That's in the record, that's in the Declaration that we have here.
- 19 About eight or ten years later, Dr. Beer looked around and said, you know,
- 20 I'm going to go against the conventional wisdom here and find out is there a
- 21 way to deal with this. Because what's happening is the only way to get
- 22 acceptable membranes is to hyper purify the feedstock materials before you
- 23 put them in.
- 24 In other words, take out the contaminants before you make the filter. Very
- 25 expensive, and a very time-consuming process to do that.

- 1 JUDGE KIMLIN: So at the time of the present invention, one of ordinary
- 2 skill in the art wouldn't even think of mechanically brushing a membrane for
- 3 fear of ruining it?
- 4 MR. NEBLETT: Exactly, Your Honor. They knew that that would damage
- 5 the membranes.
- 6 JUDGE KIMLIN: Which brings up the question; what type of mechanical
- 7 brushing is your Applicant performing that would not damage it in any way?
- 8 MR. NEBLETT: It's not so much the type of brushing, it's the timing of the
- 9 brushing.
- When Dr. Beer went back and look[ed] at this whole process, the accepted
- idea in the art was you couldn't do anything until the filter dried.
- 12 He found that if you took the combination of brushing and rinsing at the
- same time, which is what's in the claim, that the undried membrane was still
- 14 resilient enough to resist having the particles very lightly lifted off and
- 15 flushed away.
- 16 Again, as you noted, that was exactly the opposite of what was expected in
- 17 the art. It's a novel idea that in that particular time what's claimed is after the
- 18 membrane is formed but before it's dried to apply the mechanical brushing
- 19 and rinsing.
- 20 If you look at the Examiner's Answer at page 4, there's three sentences that I
- 21 think sum up the issue here. Again, Your Honor, I think you've gone
- 22 straight to it.
- 23 In the second paragraph it says: Dr. Beer teaches a process of producing
- 24 the membrane by casting directly on the film, yes, we agree with that.

- 1 Then he says, column 3, lines 45 to 54 teach removing impurities, such as
- 2 dust, by the addition of water and methanol prior to drying the film. But if
- 3 you look at that section, that's not what that section teaches.
- 4 He uses that to say that's the teaching in the Beer patent that says take these
- 5 out after you form the membrane. Those lines are the beginning of the first
- 6 embodiment.
- 7 What they talk about is preparing the solution before the membrane is
- 8 formed, in fact, before the cellulose material is even added into the material.
- 9 The first sentence: The polymeric solution is prepared prior to adding the
- 10 cellulose derivatives. They are first dissolved in acetate solution -- so before
- 11 we even get to making casting dope -- "and re-precipitated by the addition of
- 12 methanol and water." That's the water he's referring to. This is all before
- 13 casting.
- 14 Then you go a couple of sentences further on like 55: "In a covered
- tension[ing] machine the casting dope was coated on" the unsupported film
- which is formed there.
- 17 So Examiner Alexander, with due respect, I think he simply has made an
- 18 error here. He looks to that as the teaching in this reference of desirability of
- 19 cleaning after the membrane is formed. It's simply an error.
- 20 JUDGE KRATZ: And my understanding is that by doing this re-
- 21 precipitation and, of course, with that prior art teaching you wouldn't have
- the dust problems in the formed product.
- 23 MR. NEBLETT: Precisely. Again, very expensive, very time consuming
- 24 process. You have to do this multiple times to get it pure enough to get an
- 25 acceptable membrane when you get out.

- 1 Again, the art knew you had to spend that money and effort because you
- 2 couldn't clean it off after you made it. Beer said -- and it's almost ten years
- 3 before someone looked around and -- you know, a lot of motivation from
- 4 that cost to come up with something better. Again, secondary consideration
- 5 is nonobviousness. No one had gone in this direction.
- 6 With Dr. Beer here -- we've submitted evidence in the form of two
- 7 declarations, the first one to rebut the initial statement. Well, we think the
- 8 Examiner looked at the process, saw it was simply brushing, summarily
- 9 came to the conclusion it was an obvious thing to do, and has since then
- been kind of post hoc justifying and coming up with reasons.
- 11 Clearly, the answer we think is the first time where he's actually tried to
- 12 actually link a reason in the prior art. Again, with respect, we think he's got
- 13 that wrong.
- 14 JUDGE KIMLIN: Does the Applicant here get a comparable quality
- 15 membrane by this brushing as you would by purifying?
- 16 MR. NEBLETT: I apologize.
- 17 JUDGE KIMLIN: Does the Applicant here get a membrane that's
- 18 comparable in quality to the prior art?
- 19 MR. NEBLETT: Absolutely. In fact, that's what was shown in the second
- 20 Declaration and test results that we took with the prior art purified version
- 21 and then the unpurified but brushed during the formation process. The test
- 22 results showed there was a better resolution on the chemicals as they came
- 23 through.

- 1 The one other thing I want to briefly mention, the Examiner has cited the
- 2 Hasebe reference as teaching brushing being notoriously well known. We
- 3 agree. It was notoriously well known.
- 4 But Dr. Beer hasn't claimed that brushing is a novel idea. What he's come in
- 5 here and said is the nonobvious invention here was to come back in the
- 6 middle period, while it's being formed, and do something that the art didn't
- 7 think you could do.
- 8 Again, where we ultimately come out is, you know -- if you bear with me,
- 9 I'm going to take the words straight out of KSR. We don't think there's a
- 10 reason that would have prompted a person of ordinary skill in the art to
- combine the elements here through these process steps. We don't think the
- 12 Examiner has done the prima facie job he needs to.
- 13 In the alternative, if you thought he did, he's done nothing to rebut the
- 14 evidence from one of the most experienced people in this field. He's a
- 15 senior researcher, 38 years in this field, tremendously well respected.
- 16 The Examiner's response to his Declaration which explains what the state of
- 17 the art was, explains why people weren't going this way, and why he came
- 18 up with something -- the Examiner's response was respectful, but it was, you
- 19 know, essentially, we've admired what you've done, but we don't believe
- 20 you.
- 21 So, again, we believe on this record he hasn't done his job to the extent he
- 22 needs to; and he has not rebutted the evidence that's in the record.
- JUDGE KIMLIN: Any further questions?
- 24 JUDGE KRATZ: No questions.
- 25 JUDGE NAGUMO: No questions.

1	JUDGE KIMLIN: I think we understand the case.
2	MR. NEBLETT: Thank you very much.
3	Whereupon, the proceedings at 1:46 p.m. were concluded
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